

INTERNATIONAL SEARCH REPORT

 Interna Application No
 PCT/EP 03/076

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A63B49/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 A63B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 497 561 A (RUBBERMADE ACCESSORIES) 5 August 1992 (1992-08-05) cited in the application	1-4,6,8, 14,15, 17-24
Y	the whole document	9,13 16
A	----	
Y	JP 60 168473 A (AJIA WAASU KK) 31 August 1985 (1985-08-31)	9,13
A	figures	1-6,8, 18-24
X	----	
	US 5 106 086 A (ACOSTA) 21 April 1992 (1992-04-21)	1,2,4,5, 7,10,12, 14, 17-22,24
A	column 2, line 39 -column 3, line 34; figures 1-6	15,16
	----- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

22 December 2003

Date of mailing of the international search report

05/01/2004

Name and mailing address of the ISA

 European Patent Office, P.B. 5618 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Williams, M

INTERNATIONAL SEARCH REPORT

Internat. Application No.
PCT/EP 03/0076

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 797 812 A (LIU) 25 August 1998 (1998-08-25) the whole document ----	1,2,4,6, 8,10, 18-22,24
A	FR 2 725 908 A (BIANCHI) 26 April 1996 (1996-04-26) the whole document -----	1-6, 8-11,13, 18-24
A	US 4 575 083 A (ADAM) 11 March 1986 (1986-03-11) column 2, line 13 - line 68; figures 1,2 -----	1-6,8,9, 18-24

INTERNATIONAL SEARCH REPORT

 Internal application No
 PCT/EP 03/0006

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0497561	A	05-08-1992	US 5096194 A AT 128371 T DE 69205018 D1 DE 69205018 T2 EP 0497561 A1	17-03-1992 15-10-1995 02-11-1995 07-03-1996 05-08-1992
JP 60168473	A	31-08-1985	NONE	
US 5106086	A	21-04-1992	NONE	
US 5797812	A	25-08-1998	JP 10225535 A	25-08-1998
FR 2725908	A	26-04-1996	FR 2725908 A1	26-04-1996
US 4575083	A	11-03-1986	DE 3324142 A1 AU 578190 B2 AU 3028384 A CA 1230354 A1	24-01-1985 13-10-1988 10-01-1985 15-12-1987